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Microporous polyolefin strips or film prodn - by forming strips from polyolefin, microfine silica filler and mineral oil, and extracting the oil with hot water followed by butyl glycol.

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Patent Family

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Patent Details

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Abstract:

WO 9513316 A

The prodn of microporous polyolefin strips or film comprises mixing high-mol wt polyolefin with inert filler (pref finely divided silicic acid) and mineral oil plasticiser, plastifying the mixt forming into strips, treating with hot water, pref by drawing over the surface of a hot water bath, and then extracting the plasticiser by known methods with glycol ether(s), pref butylglycol.

USE - Used for the prodn of microporous polyolefin strips or film for use as battery separators etc.

ADVANTAGE - Provides a hybrid process in which most of the plasticiser is extracted with hot water, leaving about 20% to be extracted with solvent, thus minimising recycling problems and costs associated with off-gas purification and solvent recovery.

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